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CINCPACFLT/CINCLANTFLTINST 4720.4A
N632/N661
6 OCT 99

CINCPACFLT/CINCLANTFLT INSTRUCTION 4720.4A

Subj: BATTLE GROUP SYSTEMS INTEGRATION TESTING (BGSIT) PROCESS

Ref: (a) CINCPACFLT/CINCLANTFLTINST 4720.3 Series

1. Purpose. This instruction promulgates guidance and direction for the conduct of the CINCPACFLT/CINCLANTFLT-sponsored Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) and Combat Systems integration testing and validation process within deploying Carrier Battle Groups (BG), Amphibious Ready Groups (ARG), and Middle East Forces (MEF), to include embarked Naval air wings (CVW and ACE) and Marine Expeditionary Units (MEU). The process defined by this instruction complements the configuration control process formalized in reference (a). The intent of the Battle Group Systems Integration Testing (BGSIT) process is to provide an evaluation of C4ISR/Combat Systems interoperability and integration within the deploying BG/ARG/MEF/CVW/MEU/ACE to the FLTCINC, Numbered Fleet Commander, Fleet Marine Force Commander, and the BG/ARG/MEF Commanders. CINCPACFLT/CINCLANTFLT BGSIT is a CINCPACFLT/CINCLANTFLT-directed program designed to provide a comprehensive validation of "total force system" performance prior to overseas deployment. BGSIT is chartered by CINCPACFLT/CINCLANTFLT to liaison with the Type Commanders (TYCOMs), Systems Commands (SYSCOMs), and Program Executive Offices (PEOs) in reporting and tracking resolution of BG/ARG/MEF/CVW/MEU/ACE C4ISR/Combat System interoperability and integration issues.

2. Cancellation. CINCPACFLT/CINCLANTFLTINST 4720.4. This instruction should be reviewed in its entirety as significant revisions have been made from the previous instruction.

3. Definitions. In this instruction, BG refers to all ships within the Carrier Battle Group including attached submarines, the associated air wings including helicopter detachments, and any attached Middle East Force units. ARG refers to all ships within the Amphibious Ready Group, embarked Marine Expeditionary Units, and embarked Air Combat Elements.

4. Scope. This instruction addresses the organizational participation, duties and responsibilities required for identifying BG and ARG C4ISR and Combat Systems areas of concern, determining appropriate levels and sources of technical expertise required for resolution, and programming of at-sea systems integration and interoperability testing and validation procedures.

5. Background. The CINCPACFLT/CINCLANTFLT BGSIT process considers the BG's and ARG's interfacing sensors and networks as a single C4ISR/combat system designed to function in an integrated and complementary manner. The BGSIT process focuses on providing Commanders with a higher level of confidence in system operations by identifying system limitations, coordinating a resolution Plan of Action and Milestones (POA&M), and assisting in determining potential work-around options for system limitations that cannot be resolved prior to deployment. The concept of integrated testing and validation at the BG/ARG level was developed in response to the Fleet's requirement for a stressed, operational demonstration of C4ISR/Combat systems functionality following new installations and upgrades. The Fleet further required the BGSIT process be conducted prior to the final phases of the Inter-Deployment Training Cycle (IDTC). The level and scope of testing and validation have been successfully demonstrated at the BG level since FY-95 and with ARG participation since FY-96. As defined below, the BGSIT process assists the deploying Commander, TYCOMs and SYSCOMs in the coordination and programming of existing support processes. This process also assists operators in the early assessment of individual platform functionality and conducts systems integrated testing/validation during underway operations.

6. Methodology. BGSIT is tailored (1) to the BG/ARG's composition and (2) to the hardware, firmware, software baseline established by the configuration control process guided by reference (a). BGSIT assesses C4ISR/combat systems integration and interoperability to include systems configuration, documentation, and operators' usage. It also encompasses specific actions that are progressive and supportive, including:

(1) the conduct of operational tests to identify and isolate hardware, firmware and software problems to the system level; (2) the evaluation of system interfaces and peripherals; (3) the conduct of operator familiarization when required; (4) the assistance of TYCOMs, SYSCOMs and PEOs in coordinating the resolution of reported issues. Phased execution, as outlined below, provides a focused and incremental team-building approach to BG/ARG C4ISR/Combat systems operations during pre-deployment exercises.

a. Program Introduction (PI). PI is conducted in conjunction with the BG/ARG/MEF Planning Review Conference chaired by the CINCPACFLT/CINCLANTFLT in accordance with reference (a). At this conference, the CINCPACFLT/CINCLANTFLT BGSIT Program Director and the BGSIT Program Manager introduce the BGSIT process and the associated requirements to the deploying group staffs, TYCOM, SYSCOM, and PEO representatives. PI typically is conducted sixteen months prior to deployment.

b. Preliminary Assessment (PA). PA is coordinated by the BG/ARG Commander, in conjunction with the CINCPACFLT/CINCLANTFLT BGSIT organization, as a compilation of available services and information, and is designed to baseline individual platforms' systems prior to combined underway operations. These actions are preemptive and necessary in the basic stages of formulating operations to facilitate unit interoperability and the formal testing associated with BGSIT. PA typically begins eight to ten months prior to deployment.

c. Problem Definition Survey (PDS). PDSs are conducted on all combatant ships within the BG and ARG to identify current C4ISR/Combat systems configuration, including software, firmware and hardware versions, and to determine experienced or perceived C4ISR/Combat system interoperability issues. For CV/CVN and LHA/LHD ships, underway testing and evaluation of inter-connecting C4ISR/Combat systems are conducted within programmed underway exercises on a not-to-interfere basis. Similar testing and evaluation are conducted on CG, DD/DDG, FFG, and SSN ships within the BG/ARG if scheduling and availability permit. If scheduling and availability do not permit, CG, DD/DDG, FFG, and SSN ships will have PDS testing and evaluation conducted pier-side. MEU and ACE participation should coincide with PDSs for the ARG. Cumulative PA and PDS results provide early and proper focus on perceived and documented system issues, and assist in customizing BG/ARG-specific baseline testing procedures. PDS requires participation by all deploying units. Geographic and

operational constraints will be considered when tailoring PDS. PDS typically begins six to eight months prior to deployment.

d. Readiness Review (RR). RR is a meeting conducted to bring together associated BG/ARG staffs, ship representatives, TYCOM, SYSCOM, and PEO representatives to finalize test and validation plans and Schedule of Events (SOE) requirements prior to conducting operational systems integration testing and validation at-sea. The CINCPACFLT/CINCLANTFLT BGSIT Program Director chairs the meeting. CINCPACFLT/CINCLANTFLT promulgates the agenda. RR is typically conducted six months prior to deployment. In CINCLANTFLT, this meeting is conducted concurrently with the N6 Pre-TCD Meeting.

e. Final Integration Testing (FIT). FIT executes a series of tests, programmed in the BG/ARG SOE, and non-interfering evaluations during BG/ARG underway operations. The conduct of these events requires BG/ARG support including, but not limited to air services, ship/submarine/aircraft positioning, cycling of emitters/sensors, management of systems configuration, communications net assignments, and manipulation of tactical data link parameters as coordinated via the SOE. Based upon PA and PDS results, the FIT team will embark all units and will be structured in numbers and expertise to identify a comprehensive profile of current system status. BG/ARG participants shall abide by the FIT SOE. BG/ARG participants should take advantage of the technical expertise the FIT team brings to the BG/ARG.

f. Post-FIT Issue Tracking and Resolution. The CINCPACFLT/CINCLANTFLT BGSIT Program Manager will expeditiously promulgate the results of FIT via a hot-washup message, forward pertinent extracted magnetic data, and coordinate with cognizant activities for actions necessary to assist in the resolution of identified shortfalls prior to deployment. To facilitate tracking of resolution progress, the CINCPACFLT/CINCLANTFLT BGSIT Program Manager, in coordination with the deploying Commanders, will identify a comprehensive resolution reporting POA&M. Responses from SYSCOMs/TYCOMs/PEOs in accordance with this POA&M and periodic status updates from the CINCPACFLT/CINCLANTFLT BGSIT Program Manager and BG/ARG units are required to ensure deploying Commanders are kept informed and involved in issue resolution.

7. Procedures. The following paragraphs outline the planning process for scheduling, coordinating and conducting the BGSIT process.

a. Scheduling. Programming of the BGSIT process within operational, maintenance and training requirements demands early and detailed coordination between primary scheduling agencies. BG/ARG Commanders, TYCOMs and Fleet schedulers are expected to dedicate the appropriate time and assets required throughout this process to ensure a comprehensive validation of integrated systems performance prior to advanced training exercises. FIT shall be programmed during initial IDTC design, follow the Target Configuration Date (TCD) as defined in reference (a), and include all BG/ARG units.

(1) BG Scheduling Considerations. If programmed during COMPTUEX, the specific days of FIT shall be coordinated with the training CARGRU and the deploying BG staff. Programming of FIT a minimum of 70 - 80 days prior to advanced training exercises will provide the optimum opportunity for issue resolution prior to deployment. A nominal underway period of seven to nine days shall be programmed for FIT periods as coordinated with the CINCPACFLT/CINCLANTFLT BGSIT Program Manager. All assigned units shall be scheduled to participate during FIT. Deploying staff representatives shall be embarked during FIT.

(2) ARG Scheduling Considerations. FIT dates shall be coordinated with the ARG staff. Programming of FIT a minimum of 60 days prior to advanced training exercises will provide the optimum opportunity for issue resolution prior to deployment. As a standard objective, a five to seven day ARG testing period should occur simultaneously with BG testing as discussed in paragraph 7.a.(1) above. Such coordination permits the optimum opportunity for evaluation of BG/ARG C4ISR/combat system integration. If a concurrent BG and ARG FIT cannot be conducted, due to exercise scheduling constraints, a three day period of connectivity testing between the LHA/LHD and CV/CVN during the BG FIT period may be considered. A subsequent five day testing period would then be required for all ARG units.

(3) MEF Scheduling Considerations. FIT dates shall be coordinated with the MEF staff. Programming of FIT shall occur in conjunction with the BG FIT if the MEF IDTC permits. If the MEF cannot participate during the BG FIT due to IDTC constraints, CINCPACFLT/CINCLANTFLT shall determine the requirement to conduct at-sea interoperability and integration testing on a case-by-case basis. The CINCPACFLT/CINCLANTFLT BGSIT Program Manager will coordinate the required FIT period based on unit availability, MEF operational schedules and the MEF C4ISR/combat systems configuration.

(4) Notional Scheduling Overview. The following notional timeline should be considered when planning for a BG/ARG's turnaround cycle and should be modified if necessary to accommodate unique operational commitments.

BGSIT NOTIONAL TIMELINE (D = deployment date)

Milestone	Action
D minus 16 months	CINCPACFLT/CINCLANTFLT-hosted deploying BG/ARG Planning Review Conference per reference (a). CINCPACFLT/CINCLANTFLT BGSIT conduct initial BGSIT Program Introduction to include program briefings, liaison and schedule planning with associated BG/ARG staffs.
D minus 10 months to D minus 6 months	BG/ARG units conduct Preliminary Assessment (PA) with assistance of CINCPACFLT/CINCLANTFLT BGSIT.
D minus 8 months to D minus 6 months	BG/ARG units and CINCPACFLT/CINCLANTFLT BGSIT conduct Problem Definition Surveys (PDS).
D minus 6 months	Target Configuration Date per reference (a). CINCPACFLT/CINCLANTFLT conduct Readiness Review (RR) with participation from CINCPACFLT/CINCLANTFLT BGSIT, TYCOMs, SYSCOMs, PEOs, and BG/ARG staffs. Any remaining issues to support execution of the at-sea FIT must be completed at the RR. TYCOMs, SYSCOMs and PEOs must provide Subject Matter Expert (SME) nominees and Team Leader nominees by name to CINCPACFLT/CINCLANTFLT BGSIT no later than the RR.
D minus 170 days to D minus 150 days	CINCPACFLT/CINCLANTFLT BGSIT and BG/ARG units conduct BG and ARG Final Integration Testing (FIT) at-sea. Conduct the MEF FIT in conjunction with BG/ARG FIT if schedule permits.
FIT plus 10 days	CINCPACFLT/CINCLANTFLT BGSIT issue comprehensive BGSIT Hot Washup report, which details all identified C4ISR and Combat Systems integration and interoperability issues. Hot Washup report is used (1) to report FIT status to CINCPACFLT/CINCLANTFLT and BG/ARG Commander, and (2) to identify issues for resolution by TYCOMs, SYSCOMs and PEOs.

D minus 130 days to D-day	CINCPACFLT/CINCLANTFLT BGSIT actively track TYCOM, SYSCOM and PEO resolution of issues identified in the hot washup report. TYCOMs, SYSCOMs and PEOs conduct necessary actions to resolve issues identified in FIT hot washup report.
D plus 30 days	BG/ARG staffs provide an assessment report via message to CINCPACFLT/CINCLANTFLT N6 on the effectiveness of the BGSIT process in resolving C4ISR/Combat Systems integration and interoperability issues.

b. Coordination. Staffs, ships, air wings, and MEUs participating in the BGSIT process shall designate liaison personnel to coordinate scheduling and test plan issues with the CINCPACFLT/CINCLANTFLT BGSIT organization. The involvement of all BG/ARG units and staffs in the PA, PDS, RR, and FIT events and continuity of FIT team membership are essential. Early deconfliction with maintenance availabilities and IDTC requirements will maximize unit participation. Proper coordination is key to achieving an accurate picture of interoperability within the BG/ARG.

8. Responsibilities

a. CINCPACFLT/CINCLANTFLT BGSIT Program Director:

(1) Responsible for program oversight of the BGSIT process and the CINCPACFLT/CINCLANTFLT BGSIT Team. In the Pacific Fleet, CINCPACFLT N63 assigns the Program Director and directs CINCPACFLT BGSIT program policy. In the Atlantic Fleet, CINCLANTFLT N66 assigns the Program Director and directs CINCLANTFLT BGSIT program policy.

(2) Reports to the CINCPACFLT/CINCLANTFLT N6 on all BGSIT matters.

(3) Serves as official liaison between the CINCPACFLT/CINCLANTFLT BGSIT Team and the CINCPACFLT/CINCLANTFLT Staff, OPNAV Staff and all TYCOM, SYSCOM, and PEO Staffs for matters concerning the BGSIT Program.

(4) Is responsible for oversight of BGSIT Program fiscal requirements and their input into the Planning, Programming, and Budgeting System (PPBS).

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(5) Chairs the BGSIT Readiness Review conducted as stated above.

(6) Maintains approval authority, in accordance with CINCPACFLT/CINCLANTFLT N6 direction, for the release of all CINCPACFLT/CINCLANTFLT BGSIT Naval messages.

b. CINCPACFLT/CINCLANTFLT BGSIT Program Manager (CINCPACFLT Code N63B; CINCLANTFLT Code N661A).

(1) Serves full-time as direct CINCPACFLT/CINCLANTFLT N6 agent in the conduct of all administrative functions, briefings, operational planning/execution, and reporting requirements in support of the BGSIT program as approved by the CINCPACFLT/CINCLANTFLT BGSIT Program Director.

(2) Coordinates with Fleet schedulers for the development and promulgation of timelines to support the conduct of BGSIT. Maintain a continuous and accurate planning forecast for BGs/ARGs/MEFs programmed to deploy within a nominal 20 month period as established in reference (a).

(3) Initiates early liaison with BG/ARG Commander staffs and unit Operations Officers and Combat Systems Maintenance Officers for BGSIT planning requirements.

(4) Promulgates an initiation message delineating coordinated timelines, BGSIT requirements and responsibilities for each BG/ARG staff and unit.

(5) Coordinates with TYCOM, SYSCOM and PEO liaison personnel for identification and designation of required technical team support and design/update of systems testing procedures.

(6) Serves as lead agent and primary BG/ARG Commander staff liaison during the conduct of each PA, PDS, RR, and FIT event.

(7) Coordinates with the training CARGRU, ARG ISIC, BG/ARG Commander staff, MEU staff, and ships as appropriate to deconflict FIT events and programmed training requirements via the SOE.

(8) Promulgates a hot washup message report identifying C4ISR and Combat System integration issues, assigning corrective

actions to TYCOMs, SYSCOMs and PEOs, and providing BGSIT team liaison following the completion of each underway FIT period.

(9) In coordination with deploying Commanders, defines message reporting POA&M to establish criteria for recurring updates in the issue resolution process.

(10) Coordinates with designated TYCOM, SYSCOM and PEO liaison personnel for resolution of identified system issues.

(11) Promulgates consolidated issue status update message reports in conjunction with TYCOM, SYSCOM and PEO and deploying units' update reports.

(12) Promulgates a pre-deployment status message report to collate completed and pending actions.

(13) Maintains a common CINCPACFLT/CINCLANTFLT BGSIT test plan and updates it to reflect inclusion of newly installed or upgraded C4ISR/Combat systems.

(14) Maintains a CINCPACFLT/CINCLANTFLT database of BGSIT issues and corrective actions. Each BGSIT Program Manager is responsible for maintaining an issues data base for their respective Fleet process.

c. TYCOMs

(1) Identify and designate liaison personnel for direct coordination with the CINCPACFLT/CINCLANTFLT BGSIT Program Manager in the conduct of all BGSIT PA, PDS, RR, FIT, and Post-FIT requirements.

(2) Identify and designate qualified personnel to support PDS and FIT requirements as requested.

(3) Coordinate with CINCPACFLT/CINCLANTFLT BGSIT Program Director, CINCPACFLT/CINCLANTFLT BGSIT Program Manager, individual BG/ARG Commanders, and Fleet schedulers for programming of BGSIT requirements during the IDTC.

(4) Assist CINCPACFLT/CINCLANTFLT BGSIT Program Manager in the design and update of test plans, as required.

(5) Pro-actively coordinate with SYSCOMs, PEOs, CINCPACFLT/CINCLANTFLT BGSIT Program Manager, and field

activities as appropriate to resolve identified system issues prior to advanced BG/ARG training events.

(6) In accordance with BGSIT and BG/ARG staff promulgated reporting POA&M, provide timely and comprehensive message reports outlining actions taken and programmed to correct issues identified during FIT.

d. SYSCOMs/PEO

(1) Identify and designate central liaison personnel to assist CINCPACFLT/CINCLANTFLT BGSIT Program Managers in coordinating the specialized technical support required during BGSIT preparation, execution and final reporting.

(2) As required, assist CINCPACFLT/CINCLANTFLT BGSIT Program Manager in the design and update of test plans.

(3) Pro-actively coordinate with TYCOMs, CINCPACFLT/CINCLANTFLT BGSIT Program Manager and field activities as appropriate to resolve identified system issues prior to advanced BG/ARG training events.

(4) Coordinate and conduct analysis on magnetic tape data extraction obtained during FIT.

(5) In accordance with BGSIT and BG/ARG staff promulgated reporting POA&M, provide timely and comprehensive message reports outlining results of data analysis, actions taken and actions programmed to correct issues identified during FIT. Coordinated reporting between SYSCOMs/PEOs may be required.

e. BG/ARG Commanders

(1) Provide appropriate focus, priority and support for the conduct of the BGSIT process within the BG/ARG.

(2) Identify and designate staff liaison personnel for direct coordination with CINCPACFLT/CINCLANTFLT BGSIT Program Manager in conduct of all BGSIT requirements.

(3) Identify and designate individual unit liaison personnel to serve as focal point for all BGSIT operational and administrative requirements.

(4) Coordinate early scheduling and successful completion of Navy Center for Tactical Systems Interoperability (NCTSI)

"Long Look" Link system verification test with all units required to conduct such a test prior to FIT.

(5) Assist the CINCPACFLT/CINCLANTFLT BGSIT Program Manager in determining PDS dates for all units.

(6) Ensure receipt of Systems TADIL Interoperability Report (STIR) from NCTSI prior to FIT.

(7) Coordinate completion of ID doctrine and OPTASK LINK and OPTASK COMMS review with all units prior to FIT.

(8) Coordinate BG/ARG units to conduct successful pier-side or underway link exercise event prior to FIT as feasible.

(9) Ensure BG/ARG SOE and system configuration support underway FIT requirements as defined in the promulgated test plan.

(10) Assist in designing issue status reporting POA&M, and coordinate with assigned BG/ARG units to provide message updates on issue correction status.

(11) Following the first month of deployment, provide candid assessment message to CINCPACFLT/CINCLANTFLT N6 discussing experienced value of the BGSIT program and areas recommended for improvement or growth.

9. Compliance with this instruction, in conjunction with the processes set forth in reference (a), will enhance C4ISR/Combat systems readiness and performance of deploying Carrier Battle Groups, Amphibious Ready Groups and Middle East Force groups.



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